Council is pleased to extend on and from the 1st December 1904, to the Municipal District of Poona City, the provisions of the said Act so far as they relate to persons employed by or on behalf of the Municipality of Poona City to perform any of the duties specified (*a*) in Class I of the Schedule to the said Act; and (*b*) in clauses (*a*) and (*c*) of Class II of said Schedule.

EXTENDING THE PROVISIONS OF THE ACT TO THE MUNICIPAL DISTRICT OF AHMEDABAD.

Notn. No. 1030, General, dated 13th February 1907, B. G. G., 1907, Pt. I-A, p. 38.

In exercise of the power conferred by sub-section (3) of section 1 of the Municipal Servants Act, His Excellency the Governor in Council is pleased to extend on and from the 1st May 1907, to the Municipal District of Ahmedabad, the provisions of the said Act so far as they relate to persons employed by or on behalf of the Municipality of Ahmedabad to perform the duties specified in class 1 and class 2 of the schedule attached to the said Act.

EXTENDING THE PROVISIONS OF THE ACT TO THE MUNICIPAL DISTRICT OF NA'SIK.

Notn. No. 1921, General, dated 1st April 1908, B. G. G., 1908, Pt. I, p. 459.

In exercise of the power conferred by sub-section (3) of section 1 of the Municipal Servants Act, His Excellency the Governor in Council is pleased to extend, on and from the 1st June 1908, to the Municipal District of Násik the provisions of the said Act so far as they relate to persons employed by or on behalf of the Municipality of Násik to perform any of the duties specified in classes I and II of the schedule attached to the said Act.

RULES AND ORDERS UNDER BOMBAY ACT II OF 1891.

BOILER INSPECTION.

EXTENDING BOMBAY ACT V OF 1873 TO THE SETTLEMENT OF ADEN.

[1]*Notn. No. 2012, General, dated 14th July 1880, B. G. G., 1880, Pt. I, p. 637.*

Under Section (2) of the Steam Boiler Inspection Act, Bombay Act V of 1873, His Excellency the Right Honourable the Governor in Council is pleased to notify for general information that the provisions of the said Act shall apply to the Settlement of Aden.

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(1) This Notification, issued under Bombay Act V of 1873, is kept in force by Bombay Acts II of 1887 and II of 1891, Section 1.

EXTENDING BOMBAY ACT V OF 1873 TO THE TOWNS OF KARA'CHI AND KOTRI IN SIND.

[1]*Notn. No. 2020, General, dated 31st May 1882, B. G. G., 1882, Pt. I, p. 394.*

Under Section (2) of the Steam Boiler Inspection Act, Bombay Act V of 1873, and in modification of the orders contained in Government Notification dated 17th April 1877, His Excellency the Right Honourable the Governor in Council in pleased to notify for general information that the provisions of the said Act shall again apply to the towns of Karáchi and Kotri in Sind.

EXTENDING BOMBAY ACT III OF 1887 TO ALL PLACES WITHIN CERTAIN DISTRICTS IN WHICH IT WAS NOT ALREADY IN FORCE.

[2]*Notn. No. 2070, General, dated 28th May 1889, B. G. G., 1889, Pt. I, p. 492.*

Under Section 1, clause 2, of the Bombay Boiler Inspection Act, 1887*, His Excellency the Governor in Council is pleased to notify the extension of the said Act to all places in which the said Act has not hitherto been in force within the undermentioned districts in the Presidency of Bombay, that is to say :—

* Bombay Act III of 1887.

(In the Northern Division.)

The Districts of—

(1) Ahmedabad,
(2) Broach,
(3) Surat,
(4) Kaira, and
(5) Thána.

(In the Central Division.)

The Districts of—

(1) Ahmednagar,
(2) Khándesh,
(3) Násik,
(4) Poona, and
(5) Sholápur.

(In the Southern Division.)

The Districts of —

(1) Dhárwár,
(2) Ratnágiri,
(3) Kánara, and
(4) Bijápur.

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(1) See footnote (1) on page 769, *supra*.

(2) This Notification, issued under Bombay Act III of 1887, is kept in force by Bombay Act II of 1891, Section 1.

EXTENDING BOMBAY ACT III OF 1887 TO THE DISTRICTS OF BELGAUM AND KOLA'BA.

(1) *Notn. No. 903, General, dated 10th March 1891, B. G. G.,1891, Pt. I, p. 239.*

Under Section 1, clause 2, of the Bombay Boiler Inspection Act III of 1887, His Excellency the Governor in Council is pleased to notify the extension of the said Act to the districts of Belgaum and Kolába in the Southern Division of the Presidency of Bombay.

EXTENDING BOMBAY ACT II OF 1891 TO THE DISTRICT OF HYDERABAD IN SIND.

Notn. No. 507, General, dated 16th February 1892, B. G. G., 1892, Pt. I, p. 119.

Under the provisions of para. 1, clause 2, of Bombay Act II of 1891, the Governor in Council is pleased to extend the Bombay Boiler Inspection Act of 1891 to the district of Hyderabad in Sind.

EXTENDING THE ACT TO THE DISTRICT OF SHIKA'RPUR.

Notn. No. 923, General, dated 25th February 1896, B. G. G., 1896, Pt. I, p. 213.

Under the provisions of sub-section 2 of Section 1 of the Bombay Boiler Inspection Act, 1891, the Governor in Council is pleased to extend the said Act to the district of Shikárpur in Sind.

EXTENDING THE ACT TO THE DISTRICT OF THAR AND PA'RKAR.

Notn. No. 4368, General, dated 22nd October 1895, B. G. G., 1895, Pt. I, p. 1060.

Under the provisions of sub-section 2 of Section 1 of the Bombay Boiler Inspection Act, 1891, the Governor in Council is pleased to extend the said Act to the district of Thar and Párkar in Sind.

EXTENDING THE ACT TO THE UPPER SIND FRONTIER DISTRICT.

Notn. No. 3254-A, General, dated 2nd June 1906, B. G. G., 1906, Pt. I, p. 661.

Under the provisions of sub-section 2 of Section 1 of the Bombay Boiler Inspection Act, 1891, the Governor in Council is pleased to extend the said Act to the Upper Sind Frontier District in the Province of Sind.

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(1) See footnote (2) on page 770, *supra*.

EXTENDING THE ACT TO THE DISTRICT OF SA'TA'RA.

Notn. No. 1755, General, dated 31st March 1897, B. G. G., 1897, Pt. I, p. 607.

Under the provisions of Section 1 (2) (*a*) of the Bombay Boiler Inspection Act, 1891, the Governor in Council is pleased to extend the said Act to the district of Sátára.

EXTENDING THE ACT TO THE PANCH MAHA'LS DISTRICT.

Notn. No. 4347, General, dated 10th August 1897, B. G. G., 1897, Pt. I, p. 1453.

Under the provisions of Section 1 (2) (*a*) of the Bombay Boiler Inspection Act, 1891, the Governor in Council is pleased to extend the said Act to the Panch Mahás District.

RULES UNDER SECTIONS 4, 7 AND 35 OF THE ACT.

Notn. No. 4761, General, dated 9th September 1903, B. G. G., 1903, Pt. I, p. 1104.

In exercise of the powers conferred by Sections 4, 7 and 35 of the Bombay Boiler Inspection Act, 1891 (Bom. II of 1891), and in supersession of all previous rules under the said sections, the Governor in Council is pleased to make the following rules, namely :—

Preliminary.

Division of rules.

1. (1) These rules are divided into three Parts as follows :—

Part I : Bombay Boiler Inspection Rules (rules 2 to 29).

Part II : Bombay Engineer's Examination Rules (rules 30 to 81, and Appendices A, B, C and D).

Part III : Bombay Rules for determining the duties of Inspectors (rules 82 to 120 and Appendix E).

Definitions.

(2). In these rules, unless there is anything repugnant in the subject or context,—

(*a*) "the Act" means the Bombay Boiler Inspection Act, 1891;

(*b*) "Section" means a section of the said Act;

(*c*) "the Collector" means

(*i*) in the City of Bombay, the Collector of Bombay,[a–a]

(*ii*) in Aden, the First Assistant Resident, and

(*iii*) elsewhere, the chief local officer in charge of the revenue administration of a district;

[a–a] The words "and in Sind, the Collector of Karáchi" (added to this clause by Government Notification No. 1894 of 1905), were deleted by Government Notification No. 4206, General, dated 2nd August 1905, *B. G. G.*, 1905, Pt. I, p. 955.

(*d*) "Aden" means the Settlement of Aden;

(*e*) the "Presidency Proper" includes every part of the Presidency of Bombay other than Aden and Sind.

"The Presidency" includes Sind and every other part of the Presidency of Bombay except Aden, and "Mofussil" means any part of the Presidency except the City of Bombay;

(*f*) "Office" means the Bombay Boiler Inspection Office in which all records in connection with the working of the Act in the area where it is located are kept;

(*g*) "Inspection" means the inspection of boilers under the Act, and "inspection fees" means fees leviable under sections 8 and 17 and these rules.

PART I.

Short title.

2. The rules in this Part may be called the Bombay Boiler Inspection Rules, 1903.

Inspector.

Duties and emoluments of Inspectors.

3. (1) No Inspector shall undertake any professional work unconnected with his duties under the Act.

(2) The emoluments of Inspectors shall consist—

(*a*) in Aden, entirely of inspection fees, and

(*b*) in the Presidency, entirely of monthly salaries payable by Government.

(3) Inspection fees received in the Presideency shall be placed to the credit of Government.

Boiler Inspection Office.

4. The location and charge of the offices for the undermentioned areas shall be as follows :—[a]

Area.	Location.	Officer in charge.
For Aden ...	The Residency Office ...	Inspector.
For the Presidency Proper.	The Town Custom House, Bombay.	Senior Inspector.
[b] For Sind ...	Office of the Collector of Karachi.	Collector.[b]

[a] This table was substitued for the original one by Government Notification No. 6288, General, dated 30th November 1903, *B. G. G.*, 1903, Pt. I, p. 1504.

[b–b] This entry was substituted for entries relating to Sind in the table subjoined to Rule 4, by Government Notification No. 1894, General, dated 5th April 1905, *B. G. G.*, 1905, Pt. I, p. 427.

Duties of Senior Inspector.

5. The Senior Inspector shall ordinarily inspect in the City of Bombay [a] and the district of Thána [a]. He

(*a*) *shall*, when not engaged in out-door duties,

(i) attend office during usual office hours,

(ii) act under the orders of the Collector of Bombay, and

(iii) make to the Collector of Bombay and to the Collectors of the districts in the Presidency all reports concerning the working of the Act in their respective charges;

(*b*) *may*

(i) whenever he thinks such a course necessary or desirable, make any particular inspection in any part of the Presidency, in order to supervise the work and proceedings of the Junior Inspectors, and

(ii) authorize or direct inspection in the said city by a Junior Inspector.

Aden Inspector's duties.

6. Inspection in Aden shall be conducted by an Inspector who shall

(*a*) act under the orders of the Political Resident, and

(*b*) make reports to that officer through the Collector.

Ordinary duties of Junior Inspectors.

7. (1) Inspections in the mofussil shall ordinarily be made by a Junior Inspector.

(2) All Junior Inspectors in the Presidency shall

(*a*) be subordinate to the Senior Inspector,

(*b*) submit every week to the Senior Inspector [b] or, in the case of the Junior Inspector in Sind, the Collector of Karáchi [b] copies of their diaries for his information and record,

(*c*) make reports to the Senior Inspector [b] or, in the case of Junior Inspector in Sind, the Collector of Karáchi, [b]

Duties of all Inspectors in the Presidency.

8. Every Inspector in the Presidency shall keep the following records, namely:—

(*a*) a diary of the work which he performs from day to day, in which he shall enter—

(*i*) each place visited,

(*ii*) each piece of work performed by him under the Act,

(*iii*) the fees earned on account of such work, and

(*iv*) such additional particulars as he or his superior from time to time thinks necessary; and

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[a—a] These words were added by Government Notification No. 5845, General, dated 3rd October 1906, *B. G. G.*, 1906, Pt. I, p. 1332.

[b—b] These words were inserted by Government Notification No. 1894, General, dated 5th April 1905, *B. G. G.*, 1905, Pt. I, p. 427.

(*b*) in accordance with such orders as the Collector of Bombay may make requiring statements with regard to boilers liable to inspection under the Act—

(*i*) an Index,

(*ii*) a Register,

(*iii*) Dimension sheets, and

(*iv*) such other statements and records as may, from time to time, be required as aforesaid.

Subordination of Inspectors in the Presidency to Collectors.

9. Every Inspector in Presidency [a]....[a] shall act

(*a*) in respect of travelling and office work, under the orders of the Collector of Bombay [b] or, in the case of the Junior Inspector in Sind the Collector of Karáchi; [b] and

(*b*) in respect of inspections in [c] the mofussil [c] and any action connected therewith, under the orders of the Collector of the District in which any such inspection is required or made.

Duties of Inspectors with respect to Commissions.

10. An Inspector against whose proceedings an appeal is made shall attend every meeting of any Commission appointed under section 5 to hear such appeal and shall make statements on such matters and submit such plans to the Commission as he thinks necessary, or as are called for by the Commission.

Provisions as to inspection of boilers.

11. (1) Inspections shall be carried out in accordance with Part III of these rules.

(2) If the owner or person in charge of a boiler to be examined fails to comply in any material point with any of the provisions of section 9, the Inspector shall defer his inspection and shall report the case to the Collector, or, in Bombay, if a Junior Inspector is making the inspection, to the Senior Inspector, for orders.

(3) The Inspector shall, whenever the application of the hydraulic test to a boiler is necessary, give sufficient notice to the owner of such boiler before the date fixed for inspection that such test will be applied, and the omission of the owner thereupon to prepare his boiler for such test will be considered a material failure within the meaning of sub-rule (2).

Fees for inspection.

[d]12. (*1*) Inspection fees shall be levied according to the following scale:—

		Rs.
(*a*) For inspecting each boiler not over ...	... 10 N. H. P.	10
(*b*) For inspecting each boiler over 10 but not over	... 20 „	15
(*c*) For inspecting each boiler over 20 but not over	... 30 „	20
(*d*) For inspecting each boiler over 30 but not over	... 50 „	35
(*e*) For inspecting each boiler over ...	... 50 „	40

[a–a] The words "Proper and Sind" (inserted by Government Notification No. 1894 of 1905) were deleted by Government Notification No. 4206, General, dated 2nd August 1905, *B. G. G.*, 1905, Pt. I, p. 955.

[b–b] These words were substituted for the words "and the Collector, Karáchi, respectively" (inserted by Government Notification No. 1894 of 1905) by Government Notification No. 4206, General, dated 2nd August 1905, *B. G. G.*, 1905, Pt. I, p. 955.

[c–c] As amended by Government Notification No. 4206, General, dated 2nd August 1905, *B. G. G.*, 1905, Pt. I, p. 955.

[d] Rule 12 was renumbered Rule 12 (1) and sub-rule (2) was added thereafter by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt I, p. 154.

(2) On such date, he may either submit a written statement, or may be present in person or by authorised agent, and he shall be allowed to produce any evidence he may have bearing on the facts under enquiry.

Witnesses.

25. The Commission may, at its discretion, summon any witness whose evidence it considers necessary for the purposes of any enquiry held by it.

Decision.

26. All decisions of the Commission shall be in accordance with the votes of the majority of the members. The President shall have a casting vote.

Proceedings.

27. The proceedings of the Commission shall be in writing and shall be signed by the President. A copy of any order passed shall be given to the person affected by it, if he applies for it, on payment of copying charges and stamp fees, if any.

Enquiries under section 24, sub-section (1).

28. (1) If the Collector has reason to believe, from any cause whatever, that an enquiry should be made under section 24, sub-section (1) [a] in order to ascertain whether an Engineer possessing a certificate of competency or service is incompetent or addicted to drunkenness or has been guilty of any serious misconduct or negligence[a] he may either make such enquiry personally or cause it to be made by an Assistant or Deputy Collector.

[b] (2) The Collector shall appoint as assessor in such enquiry—

(a) in the City of Bombay or the City of Karáchi, a member of the local Boiler Commission,

(b) elsewhere, any person resident in the district who holds a first class certificate of competency under the Act and who appears to the Collector to be a fit and proper person to be an assessor.

When the Collector is unable to find such a person within the limits of his district, he shall request the Collector of Bombay to depute an assessor, and the Collector of Bombay shall comply with such request.[b]

[b] (3) The enquiry shall be held in presence of the Engineer whose conduct forms the subject of the enquiry, and who shall be allowed to make any statement he may wish to make and to produce evidence in his defence.[b]

[b] (4) The Collector shall forward to Government the record of the enquiry together with the opinions of the officer conducting the enquiry and of the assessor, and shall make such recommendation with reference to section 24 as he may think fit. [b]

[b] (5) The assessor shall be paid fees at the rate of Rs. 30 for the first hour of his attendance at the enquiry and Rs. 15 for each subsequent hour, subject to a limit of Rs. 50 per diem. In the case of an assessor deputed by the Collector of Bombay under the last sentence of sub-rule (2) of this rule, the rate of fee shall be fixed by the Collector of Bombay, and the assessor shall also be paid travelling expenses.[b]

[a—a] These words were substituted for the original words by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

[b—b] Sub-rules (2), (3), (4) and (5) were substituted for the original sub-rules (2) and (3 of Rule 28 by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

Particulars to be given on engagement of Engineer.

29. Any owner of a boiler who engages an Engineer shall at once furnish to the Boiler Department particulars of the name and qualifications of the said Engineer, with a copy of his certificate.

PART II.

Preliminary.

Short title.

30. (1) The rules in this Part may be called the Bombay Engineers' Examination Rules, 1903.

Definition.

(2) Wherever in these rules service with engines and boilers is required as a qualification for admission to an examination under section 21, the word "engine" or "boiler" shall be held to include any locomotive engine or boiler used upon, or appertaining to, any railway within the meaning of that word as defined in section 3, clause (4), of the Indian Railways Act, 1890.

Board of Examiners.

President.

31. The Collector shall ordinarily be *ex-officio* President of the Board of Examiners, but, in the City of Bombay and in districts where a suitable officer is available, he may delegate his powers to such officer, who, in that case, shall be present at all examinations.

Meetings.

32. The examiners from time to time nominated under section 20 shall meet at the request of the Collector, whenever necessary, in such place as he may from time to time deem expedient.

Examinations by whom to be conducted.

33. Each examination shall be conducted by such members of the Board, not less than four in number, as the Collector, with a view to their successive service as far as possible in rotation, may request to attend for the purpose.

Emoluments.

34. Each Examiner shall be entitled to receive a fee of fifty rupees per diem for each meeting of the Board, at which any duty prescribed by the Act is performed and which he attends from the beginning to the end.

Endorsement by Examiner.

35. The Examiner shall endorse on the printed application of each candidate the result of his examination for a certificate of competency, and return to the Collector the application so endorsed.

Examinations.

Dates of Examinations.

36. (1) Examinations shall ordinarily be held in the City of Bombay for the Presidency Proper, and for Sind in the City of Karáchi, once every three months on the [a] second Monday [a] of the month.

[a-a] The words "Second Monday" were substituted for the words "Second Wednesday" by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

(2) At Aden examinations shall be held once every three months on the second Wednesday of the month and shall be for third class certificates only.

(3) Where a gazetted holiday falls on the date fixed for examination, or where such a holiday intervenes during the course of the examination, the Collector of Bombay in Bombay, the Collector of Karáchi in Karáchi, and the Political Resident, Aden, in Aden, may fix some other date for holding the examination, which date shall be duly notified to the candidates for examination.

Clerks to attend.

37. Every examination shall be attended by one or more clerks from the Collector's office, who shall do such clerical work as may be necessary and shall act as interpreter when required to do so by the Board of Examiners.

Kinds of examinations.

38. The examinations shall be of three kinds, one for each of the three classes of certificates of competency which the Board is hereinafter empowered to grant.

Admission of Candidates to the Examinations for Certificates of Competency.

Fees for examinations.

39. (1) Candidates at examinations for certificates of competency shall pay fees at the following rates, namely :—

	Rs.
For a first class certificate	20
Do. Second do. do.	15
Do. third do. do.	10

[a](2) Candidates shall not, by reason of having failed to pass an examination, be entitled to a refund of the fees paid for the same. [a]

[a](3) Where a candidate is unavoidably absent from any examination for which he has paid fees, the Collector may allow him to appear without a second payment of fees at any of the two succeeding examinations [b].....[b]....[a].

[a](4) Where a fee has been paid by an applicant who is found to be ineligible for any examination, the Collector may, in his descretion, either allow the applicant to appear without a second payment of fees at any other examination held within one year of such first examination or, upon application within one year of the date of payment, refund the fee [ ].

Application.

40. (1) Every applicant for examination must make an application in the form of Appendix A.

(2) He shall duly fill in all parts of the said form which are to be filled in by a candidate and sign the same in the presence of the Collector, an Assistant Collector or a Magistrate, who shall append his signature in token of attestation.

[a-a] Sub-rules (2), (3) and (4) were substituted for sub-rule (2) of rule 39, by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

[b-b] The words "held within six months of such first examination" were deleted from sub-rule (3) of rule 39, by G. N. No. 727. *Corrigendum.*—General, dated 10th February 1909, *B. G. G.*, 1909, Pt. I, p. 238.

(3) The applicant shall then lodge his application at the office of the Collector not later than fifteen days before the date fixed for the examination, together with—

(*a*) all testimonials of good character, sobriety, experience and ability together with copies of the same ;

(*b*) any other papers required by these rules or the printed form of application.

(*c*) a receipt from a Government treasury situated in the Bombay Presidency for the amount of the fee prescribed in rule 39, sub-rule (1), for the examination at which he wishes to appear ;

(*d*) a letter declearing in what language he desires to be examined ; and

(*e*) all previous certificates issued to the applicant under the Act.

Candidates to be able to read.

41. Candidates for certificates of competency who are natives of India must prove to the satisfaction of the Examiners that they can read their vernacular sufficiently well to perform the duties required of them.

Power to refuse in certain cases.

42. (1) The Board of Examiners appointed under the Act is empowered to refuse the issue of a certificate to any candidate for a certificate of competency or service, who (*a*) has passed the age of 55 years, or (*b*) suffers from deformity or the loss of a limb, when, in the opinion of a majority of the Board, the deformity or the loss of that limb is likely to render the candidate permanently unfit to carry out the duties of an engineer.

Power to send before Medical Board.

(2) The Board of Examiners is further empowered to send before the Medical Board in Bombay any candidate for a certificate of competency or service, who, by reason of short-sight, deafness or general ill-health appears to them unlikely to be capable of properly performing the duties of an engineer.

(3) Where the medical opinion thus obtained shows that any candidate is incapacitated for service as an engineer by any or all of the abovementioned causes, the Board of Examiners shall have power to refuse to issue a certificate of competency or service to such candidate.

Testimonials.

To extend over at least six months.

43. No applicant shall be admitted to examination whose testimonials as to sobriety, experience and ability do not relate to a period of six months or more of the twelve months immediately preceding the date of the application and are not, in the opinion of the Board, trustworthy and satisfactory :

Provided that an applicant whose testimonials have been accepted as satisfactory under this rule at one examination, but who has for other reasons failed to pass, may at the discretion of the Examiners be permitted to appear on the same testimonials at the next succeeding examination.

By whom to be signed.

44. (1) The testimonial for any period during which the candidate acted as a chief engineer must be signed by the manager, owner or secretary, by or under whom the candidate was employed.

(2) For such period as he acted as a second or lower grade engineer, or as apprentice, journeyman mechanic, fitter and turner or foreman, the testimonial must be signed by the chief engineer to whom the candidate was subordinate; and must also be countersigned by the manager, owner or secretary of the mill (in which the candidate was employed), who must state that the information regarding the period and nature of the candidate's service has been compared with the registers of the mill and found to be correct.

(3) If for any sufficient reason the signature of the chief engineer is not obtainable, it will be sufficient if the testimonial is signed by the manager, owner or secretary, and if its contents are stated to have been verified from the mill registers or to be within personal knowledge of the person signing the same.

Service outside British India.

45. Testimonials relating to service beyond the limits of British India must be countersigned either by the consul, or by some other recognised official authority of the country in which the service was performed; or, in the case of a Native State, by the Political Agent: or must be authenticated by the testimony of some credible person on the spot having personal knowledge of the facts required to be established.

Power to enquire.

46. If the Board has reason to doubt the truth of any fact stated in any application or testimonial, it may make through the Collector such enquiries as it thinks fit.

[a] 46A. Where the Collector after due enquiry, whether on reference by the Board under rule 46 or otherwise, is satisfied that any testimonial tendered by a candidate is false he may by written order debar such candidate from being admitted to any subsequent examination held under the Act, and if upon tender of such testimonial such candidate has already been admitted to examination he shall be deemed to have failed in such examination.[a]

Filing of copies and return of originals.

47. The applications and copies of the testimonials referred to in rule 40 shall be filed in the office of the Steam Boiler Department, and the original testimonials shall, at the close of each examination, be returned to the candidates who presented them, [b].....[b] and copies of them shall be obtainable [c] on payment of copying charges [c] on application to the Collector.

Age and Training of Candidates.

Training of third class candidates.

48. A candidate for a third class certificate of competency shall not be admitted to examination unless he

(*a*) is qualified within the meaning of the rules next following as a candidate for a second class engineer's certificate of competency, or

(*b*) proves to the satisfaction of the Board that previous to his application he has been three years employed as a fireman on engines and boilers, or

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[a—a] This rule was inserted by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

[b—b] The words "if they apply for the same" were repealed by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

[c—c] These words were substituted for the original words "free of cost" by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

(*c*) produces from the Principal of the College of Science at Poona, or from the Principal of the Victoria Jubilee Technical Institute at Bombay, or from the Principal of the Kala Bhavan at Baroda, or from the Superintendent, Fardunji Parekh School of Art, Surat, a certificate stating that he has completed a full three years' course in the workshops of such one of the said institutions as is under the control of the Principal or Superintendent granting the certificate, and during that period has been constantly instructed in the management of engines and boilers.

Age and training of second class candidates.

49. (1) A candidate for a second class engineer's certificate of competency must be twenty-one years of age.

(2) No candidate for a certificate of this class will be admitted to the examination, unless he

(*a*) proves to the satisfaction of the Board that, previous to his application,—

(i) he has served an apprenticeship for not less than three years to an Engineer, devoting his whole time to the work of an apprentice and not being simultaneously employed on other duties unconnected with the profession of Engineering, and that during that time he has been employed on the making and repairing of engines;

(ii) he has been employed for not less than three years as a journeyman mechanic in some factory or workshop on the making or repairing of engines; or

(iii) he has for not less than two years fulfilled the requirements either of clause (i) or of clause (ii) as to service or employment, and has, for not less than one year in addition thereto, served as engineer in charge or assistant engineer in some mill or factory with boilers under steam; or

(*b*) produces from the Principal of the College of Science at Poona, or from the Principal of the Victoria Jubilee Technical Institute at Bombay, or from the Principal of the Kala Bhavan at Baroda, or from the Superintendent, Fardunji Parekh School of Art, Surat, a certificate stating that he has completed a full three years' course in the workshops of such one of the said institutions as is under the control of the Principal or Superintendent granting the certificate and during that period has been constantly instructed in the management of boilers and engines: and also produces, in addition to a certificate from such one of the said institutions, a certificate or certificates showing that for a period of not less than one year he has obtained practical experience in either of the ways laid down in sub-clauses (i) and (ii) of clause (*a*) of this sub-rule.

Age and training of first class candidates.

50. (1) A candidate for a first class engineer's certificate of competency must be twenty-two years of age.

(2) No candidate for a certificate of this class will be admitted to the examination unless he proves to the satisfaction of the Board that, previous to his application,—

(1) he has received such training as is required by rule 49 in the case of a candidate for a second class engineer's certificate of competency; and

(2) either

(*a*) he possesses or is entitled to a first class engineer's certificate of service; or,

if he neither possesses nor is entitled to a first class certificate of service,

(*b*) that he has served—

(i) for at least one year with boilers under steam as engineer with a second class engineer's certificate of competency, or

(ii) for at least two years with boilers under steam as engineer with a second class engineer's certificate of service, or

(iii) for at least one year with boilers under steam as second engineer with a second class engineer's certificate of service, and, in addition, for at least six months as chief engineer with boilers under steam which are by law required to be in the charge of an engineer holding a certificate:

Provided that where an applicant, who is able to satisfy the Collector as to the character of his services, has, in consequence of service abroad, been unable to obtain a second class certificate of competency or of service, he may be allowed, if the Collector sees fit to be examined for a first class certificate of competency or of service although he has not obtained a certificate of the lower grade.

Explanation.—The words "service abroad" shall, for the purposes of this rule, be deemed to mean service in a territory or territories in which the Act is not in force.

Qualified person may appear for lower class Examination.

51. Any person qualified under the rules hereinbefore contained to appear for examination as a candidate for a certificate of any class other than the third class, may be permitted to appear for examination as a candidate for a certificate of any class inferior to that for which he is so qualified to appear as a candidate.

General Rules regarding Service.

Engine-room service.

52. Every candidate who qualifies for admission to the examination by engine-room service, must show by his testimonials that he has been regularly employed in the engine-room as a fire-man or as an engineer of a certain grade.

Service with boilers under steam.

53. Service with boilers not continuously under steam shall count as service of half the same length with boilers continuously under steam, unless the candidate proves that more than half of such service was actually under

steam [a] in which case he may count the whole of the service proved to have been under steam [a] and the candidate must show by his testimonials whether the boilers with which he has worked were or were not continuously under steam.

Practical service.

54. Service as an engineer means service in those capacities only which afford opportunities of obtaining practical experience as an engineer on engines, boilers and their appurtenances; it does not include service as a fireman, stoker, donkeyman, greaser, winchman, labourer, or engineer's steward.

[b] 54A. Service as engineer with a second class certificate means service with boilers attached to prime-movers of nominal horse power exceeding twenty.[b]

Service where Act not in force.

55. Service performed in places where the Act is not in force may be accepted as qualifying service subject to the same rules as those which apply to service performed in places where the Act is in force.

Subjects of Examination for Certificates of Competency.

Third class.

56. To be entitled to a third class certificate of competency a candidate must satisfy the Examiners that—

(*a*) he fully understands the working and management of boilers, the use of the best means of firing for the prevention of smoke, and the separate use of gauge glass-cocks, blowoff cocks, scum-cocks and other appliances;

(*b*) he is able to some extent to explain the actual working of engines, and the separate uses of feed-pumps, slide-valves, pistons and other appliances; and

(*c*) he is able to show how he would act in case of the break-down of any portion of the machinery, &c.

Second class.

57. To be entitled to a second class certificate of competency a candidate—

(*a*) must give a description of boilers, and the methods of staying them together with the use and management of the different valves, cocks, pipes and connections;

(*b*) must understand how to correct defects from accident, decay and other causes, and know the means of repairing such defects;

(*c*) must understand the use of the barometer, thermometer, and the salinometer, and the principles on which they are constructed;

(*d*) must know the causes, effects and usual remedies for incrustation and corrosion;

(*e*) must state how a temporary or permanent repair could be effected in case of derangement of a part of the machinery, or of total break-down;

[a–a] These words were inserted after the words "actually under steam" by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. 1, p. 154.

[b–b] This rule was inserted by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

(*f*) must write a legible hand, and understand the first five rules of arithmetic, and decimals, and their application to questions about consumption of stores, full capacities of tanks, the duty of pumps, and the direct strains in engines and boilers ;

(*g*) must pass a creditable examination as to the various constructions of engines in general use and as to the details of the different working parts, external and internal, and the use of each part ; and

(*h*) must possess a creditable knowledge of the prominent facts relating to combustion, heat and steam.

First class.

58. To be entitled to a first class certificate of competency a candidate must be able to—

(*a*) make an intelligible hand-sketch or a working drawing of some one or more of the principal parts of a steam-engine ; and to mark in, with out a copy, all the necessary dimensions in figures, so that the sketch or drawing could be worked from * ;

(*b*) take off and calculate indicator diagrams ;

(*c*) calculate safety-valve pressures, and the strength of the boiler shell, stays and riveting ;

(*d*) state the general proportions borne by the principal parts of the machinery to each other, and calculate the direct stress, the torsional stress and the bending stress, in round bars, and the direct stress and the bending stress in rectangular bars with given loads ;

(*e*) explain the method of testing and altering the setting of the slide-valves, and sketch about what difference any alteration in the slide-valve will make in the indicator diagram, and also explain the method of testing the fairness of shafts, and of adjusting them ;

(*f*) explain surface condensation, super-heating and the working of steam expansively ; and

(*g*) work calculations including the mensuration of superficies and solids and the extraction of the square root, and the application of these rules to questions relating to the power, duty and economy of engines and boilers, and to the stresses in rods, shafts and levers, of the engine.

Mode of Examination.

Examination to be practical.

59. Every examination shall be of such a nature as to test the practical knowledge of the candidates and to ascertain their competency to manage boilers and prime-movers.

Third class.

60. The examination for third class certificates will be conducted *viva voce*, and in the City of Bombay will be held in His Majesty's Indian Marine Dockyard and elsewhere, if possible, in a foundry where the candidate's knowledge can be practically tested in the use of the steam-vacuum and water-gauges.

[a] 61. The examination of candidates for a first or second class certificate shall be conducted as follows :—

(*1*) Each candidate shall in the first place be required

* See Appendix C.

[a] This rule was substituted for the original rule 61 by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

(*a*) if a candidate for a first class certificate

to write answers within a prescribed time to ten questions in arithmetic set with reference to clause (*g*) of rule 58;

(*b*) if a candidate for a second class certificate

to write answers within a prescribed time to ten questions in arithmetic set with reference to clause (*f*) of rule 57.

Any candidate who shall fail to satisfy the examiners by his answers to the said questions shall be declared to have failed in the examination and shall not be examined in any other subjects.

Note.—(*i*) Each of the mathematical papers prescribed by this sub-rule will be divided into two parts.

(*ii*) The time prescribed for the first part of each paper will be from 11 A. M. to 1-30 P. M. and for the second part of each paper from 2 P. M. to 4-30 P. M.

(*iii*) From 1-30 P. M. to 2 P. M. candidates will, after giving up their answers, be allowed leave of absence from the examination room.

(*iv*) Any candidate failing to re-attend punctually at 2 P. M. may be refused re admission.

(*2*) Each candidate who shall satisfy the examiners in respect of both parts of the mathematial paper prescribed by sub-rule (*1*) shall be required

(*a*) if a candidate for a first class certificate

(*i*) to write answers within a prescribed time to ten of the elementary questions issued by Government and referred to in Appendix D;

(*ii*) to make within a prescribed time a rough drawing of some part of a boiler or engine;

(*iii*) to answer *viva voce* questions asked with reference to clauses (*b*), (*c*), (*d*), (*e*) and (*f*) of rule 58 and with reference to any papers set to him.

(*b*) if a candidate for a second class certificate

(*i*) to write answers within a prescribed time to ten of the elementary questions issued by Government and referred to in appendix D;

(*ii*) to answer *viva voce* questions asked with reference to clauses (*a*), (*b*), (*c*), (*d*), (*e*), (*f*) and (*g*) of rule 57 and with reference to any papers set to him.

Note.—Each candidate will at the time of examination be provided with a book containing the elementary questions referred to in paragraph (*i*) of clause (*a*) and in paragraph (*i*) of clause (*b*) of this sub-rule and will be required to note from dictation by the examiners the numbers of the questions to which they are required to write answers.

(*3*) Written answers shall be worked out in the presence of at least one of the examiners.

(*4*) Each candidate shall give up his written answers, whether complete or not, on the expiry of the time prescribed.

(*5*) If, at the expiry of the time prescribed, either

(*a*) the answers given by the candidate satisfy the examiners of his capability to take charge, in the case of

(*i*) a first class candidate, of boilers, whatever their nominal horse-power, and in the case of

(*ii*) a second class certificate, of boilers of ninety nominal horse-power; or

(*b*) the candidate has failed to work out the whole of the questions set to him, but the result of the *viva voce* examination, taken in connection with the answers to such of the questions as he has worked out satisfies the examiners that the candidate is competent to take charge, in the case of

(*i*) a first class candidate, of boilers, whatever their nominal horse-power, and in the case of

(*ii*) a second class candidate, of boilers of ninety nominal horse-power,

he shall be declared to have passed, otherwise the candidate shall be declared to have failed.

Re-appearance for examination.

62. Where a candidate for [a] any class of [a] certificate fails either in the elementary questions or in the subsequent portion of the examination, the Board of Examiners shall fix a period after the expiry of which he may again appear for examination, and shall inform him thereof; and the candidate shall not be at liberty to appear again for examination at any place at which an examination is held under the Act until after the expiry of the period so fixed.

Rules for the Examination Room.

Cancellation allowed.

63. Candidates will be allowed, in the time allotted, to cancel any part of their work, and, when required, additional paper will be supplied by the Examiner, but they will not be allowed to work out the problems on a slate or on waste paper. The additional sheets shall be attached to and form part of the examination papers to be given in by the candidate.

Rough working drawing.

64. The examination in rough working drawing which candidates for first class certificates have to pass under clause (*a*) of rule 58, may at the candidate's option be applied either to hand-sketches clearly dimensioned and complete in the necessary *views* and *sections* or to drawings to a scale. Candidates shall bring with them any drawing instruments they require.

Penalty for unfairness.

65. A candidate discovered (*a*) to have taken into the examination room any book, paper, document or memoranda of any description, or (*b*) copying from or affording, giving or receiving any assistance or any information to or from, or communicating in in any way with, another during the time of examination, shall be regarded as having failed in his examination, and shall be turned back for four months, in the same manner as if he had failed in the practical part of the examination and no part of the fees he may have paid for examination shall be returned to him.

Leaving examination room.

66. If a candidate leaves the room before answering any question which has been given to him, he cannot afterwards be permitted to answer it, but the Examiner may substitute other data, or another question.

[a-a] These words were substituted for the words "a first or second class" by G. N. No. 452, General, dated 26th January 1909, B. G. G., 1909, Pt. I, p. 154.

Grant of Lower Grade Certificates in certain cases.

Lower Grade Certificates.

67. Where a candidate allowed, under the proviso to rule 50, to be examined for first class certificate though he has not obtained a certificate for a lower grade or where a candidate already in possession of a certificate of service, fails to pass the examination for the higher grade, but passes the examination for the lower grade, he may receive a certificate for the grade passed, but no part of the fee paid by him will be returned.

Consequence of failure.

68. A candidate who has been permitted to be examined for a first class certificate of competency under the proviso to rule 50 without first obtaining a second class certificate of competency or a first class certificate of service, and who fails in his examination in practical knowledge, shall not be re-examined for a certificate of the higher grade until he has served twelve months as second engineer with a second class engineer's certificate of competency as required by the rules.

Re-examination on failure.

69. Where the candidate fails in the examination for the lower as well as for the higher grade of certificate, he may be re-examined for a second class certificate only, subject to the provisions of rule 62.

Postponement of Grant of Certificate in certain cases.

Short service.

70. (1) If, after a candidate has passed his examination, it is discovered that his services are insufficient to entitle him to a certificate of the grade for which he has passed, such certificate shall not be granted to him; but if the Collector is satisfied that the error in the calculation of his services did not occur through any fault or wilful misrepresentation on the candidate's part, the Collector may direct the certificate to be issued, or may allow the candidate to appear for re-examination without payment of further fee, when he has performed the deficient service.

Service sufficient for a lower grade certificate.

(2) If, in such a case, the applicant's services are sufficient to entitle him to receive a certificate of a lower grade, provided as aforesaid he has not wilfully misrepresented the amount of his services, a certificate of such lower grade may be granted to him, and the difference between the fee paid by him for the superior certificate and the fee payable for the inferior certificate may be refunded.

Re-examination.

(3) In such a case, when the applicant has by further service made up the time in which he was found to be short, he may be required, before he can receive the higher certificate, to be re-examined in all the subjects.

Surrender of Lower Grade Certificates.

Holder of lower grade certificate to surrender it before grant of first or second grade certificate.

71. No certificate of the first or second class shall be granted to the holder of a certificate of a lower grade unless and until the holder has surrendered to the Collector the certificate of the lower grade.

72 (1) The authorities below mentioned shall be deemed to be competent authorities within the meaning of section 22 by which Engineers in possession of a certificate of competency granted by such authorities are entitled to receive certificates of competency under this Act without undergoing further examination:

The Board of Trade.
The Steam Navigation Board, Victoria.
The Minister of Marine and Fisheries, Canada.
The Marine Department, New Zealand.
The Marine Board, New South Wales.
The Head of the Government, Malta.
The Marine Board, South Australia.
The Board of Examiners under the authority of the Governor of Tasmania.
The Calcutta Marine Board (*i. e.*, the Lieutenant-Governor, Bengal).
The Burma Boiler Act Board.
The Straits Settlements Board.
The Marine Board, Queensland.
The Governor, Hongkong.
The Bombay Marine Board (*i.e.*, the Governor of Bombay).
The Marine Board, Karáchi.
The Commandant, School of Military Engineering, Chatham.
The Commanding Royal Engineer, Southern District, Portsmouth.
The Commanding Royal Engineer, Western District, Plymouth.
[a] The Board of Examining Engineers of the United Provinces[a]
[b] The Commandant, Ordnance College, Woolwich[b].
[d] The Marine Board, Aden[d].
[e] The Burma Marine Board[e].

(2) In the case of non-commissioned officers in the Royal Engineers [b] and Smiths in the Royal Garrison Artillery[b] for whom a certificate is necessary in order that they may be placed in charge of boilers used for military purposes, the following procedure will be observed :

[c] Application shall be made[c] to the Collector of Bombay or Karáchi [b]or to the First Assistant Resident at Aden as the case may be[b] for a certificate for the non-commissioned officer [b]or smith[b] supported by the necessary British certificate of competency of the "Superior" or "Very superior" class. The application shall be at once

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[a–a] This addition at the end of sub-rule (1) of Rule 72 was made by G. No. 1725, General, dated 6th April 1904, *B. G. G.*, 1904, Pt. I, p. 416.

[b–b] These words were inserted by G. N. No. 3522, General, dated 27th June 1905, *B. G. G.*, 1905, Pt. I, p. 784.

[c–c] These words were substituted for the words "The officer in charge of the submarine defences at Bombay or Karáchi shall make an application" by G. N. No. 3522, General, dated 27th June 1905, *B. G. G.*, 1905, Pt. I. p. 784.

[d–d] These words were added by G. N. No. 3478, General, dated 6th July 1904, *B. G. G.*, 1904, Pt. I, p. 892.

[e–e] These words were added by G. N. No. 3762, General, dated 20th July 1904, *B. G. G.*, 1904, Pt. I, p. 977.

[f–f] These words were inserted by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

circulated to at least four of the members of the Board of Examiners and a third class certificate in Form D, Appendix B, shall be signed by them and forwarded post free to the officer making the application.

No process of identification is necessary for the granting of this certificate which will entitle the non-commissioned officers [b]and smiths[b] receiving it to be placed in charge of military boilers only.

(3) All other applications under section 22 shall be made under rule 76 and the certificates granted shall be in Form C, Appendix B. The fact of such fresh certificate having been granted, shall be endorsed on the original qualifying certificate.

Certificates of Service.

Examinations to be practical.

73. In order (*a*) to ascertain that a candidate for a certificate under section 23 is possessed of competent skill for the charge and management of a boiler, and (*b*) to determine what class of certificate he is qualified to hold, the Board of Examiners shall subject him to such practical examination as they in each case think fit.

Fees.

74. Applicants for certificates of service shall be charged fees at the following rates, namely :—

	Rs.
First	10
Second	5
Third	3

Provided that any fee so paid by an applicant who is found to be ineligible for the grant of a certificate by reason of the insufficiency of his testimonials of previous service, may, if applied for, [c]within one year of the date of payment[c] be returned to him in full.

Form of Certificates.

Form of Certificate.

75. Certificates of competency and of service shall be in the forms given in Appendix B, respectively, or to the like effect.

Certificate under section 22.

76. Applications under section 22 for certificates of competency corresponding to foreign certificates in the possession of the applicants, shall be in the form of Appendix A. Each applicant shall duly fill in the form, and, together with copies of the original foreign certificates in his possession, shall lodge the form with the Collector at least ten days before any meeting of the Board of Examiners.

[a] Provided that, when the Collector is satisfied that delay in issuing a certificate would cause hardship and is not due to the applicant's negligence, the Collector may receive such application at any other time: in such case the Collector shall refer the application to at least four Members of the Board of Examiners and on their signing the necessary certificate shall deliver it to the applicant after the usual process of identification has been carried out[a].

[a—a] This proviso to Rule 76 was added by G. N. No. 4084, General, dated 26th July 1905, *B. G. G.*, 1905, Pt. I, p. 909.

[b—b] *See* footnote [b—b] on page 790, *supra*.

[c—c] These words were inserted by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

Capabilities of holders of certificates.

77. (1) Holders of certificates of the first class will be deemed to be capable, as first class engineers, of having charge of boilers attached to prime-movers of any horse-power.

(2) Holders of certificates of the second class will be deemed to be capable, as second class engineers, of having charge of boilers attached to prime-movers not exceeding sixty horse-power nominal.

(3) Holders of certificates of the third class will be deemed to be capable, as third class engineers, of having charge of boilers attached to prime-movers not exceeding twenty horse-power nominal :

Provided that holders of certificates of the third or second class issued between the 3rd February and the 31st October 1893 may remain in charge of boilers, the horse-power of which does not exceed thirty or ninety, respectively, and of which they were in charge prior to the 31st October 1893, notwithstanding the fact that the horse power of the engines attached to such boilers though below thirty or ninety may exceed twenty or sixty respectively.

[a] Provided further that holders of certificates of the third or second class will be deemed to be capable of having charge for a period not exceeding twelve hours at a time of boilers attached to prime-movers not exceeding sixty horse-power nominal or of any horse-power respectively where such boilers have for a period of not less than twelve hours immediately preceding, been in direct and immediate management and charge of holders of certificates of the second or first class respectively[a].

Duplicate certificates how to be made.

78. Applications for duplicates under section 26 shall be lodged with the Collector, together with a sworn declaration describing the lost certificate and other documents relied upon by the applicant.

79. Fees at the following rates shall be charged for duplicates applied for and granted under section 26, namely :—

(*a*) For duplicates of certificates granted under section 21—

	Rs.
1st Class	20
2nd Class	15
3rd Class	10

(*b*) For duplicates of certificates granted under section 23—

	Rs.
1st Class	10
2nd Class	5
3rd Class	3

Record of duplicates.

80 Duplicates of all certificates granted under the Act shall be recorded in the Steam Boiler Office.

Payment of fees.

81. All fees payable under these rules may be paid into any Government treasury situated in the Bombay Presidency.

[a—a] This proviso was added by G. N. No. 452, General, dated 26th January 1909, *B. G. G.*, 1909, Pt. I, p. 154.

APPENDIX A.

(*See rules 40 and 76.*)

Rotation No.

Bombay Boiler Act II of 1891.

GOVERNMENT OF BOMBAY.
ISSUED BY ORDER OF THE GOVT. OF BOMBAY.

APPLICATION FOR AN ENGINEER'S CERTIFICATE OF COMPETENCY UNDER SECTION _____

(A.)—Name, &c., of Applicant.

Names at full length. 1	Surname. 2	Permanent Address, stating Town, Street and No. of house and name of Person (if any) with whom residing. 3

Date of Birth.			Where born.	
Day. 4	Month. 5	Year. 6	Town. 7	County.

(B.)—Particulars of all previous Certificates (if any), whether issued in British Possessions, or elsewhere.

Number. 9	Competency of Service. 10	Grade. 11	Where issued. 12	Date of issue. 13	If at any time suspended or cancelled, state by what Court or Authority. 14	Date. 15	Cause 16

(C.)—Certificate now required.

Grade. 17	Competency of Service. 18	Address to which is to be sent. 19